

# **INTRA-DISCIPLINARY PROJECT-I REPORT**

## **HOSTEL MANAGEMENT SYSTEM**

Submitted

by

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Under the guidance of

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Foundation for Science, Technology & Research

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH**  
**Deemed to be UNIVERSITY**  
**Vadlamudi, Guntur.**



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## **CERTIFICATE**

This is to certify that the Intra-Disciplinary Project-I entitled “**Hostel Management System**” that is being submitted by **Suraj Patel (201FA04431), Dipu Kumar (201FA04432), Nitish Kumar (201FA04433)** for partial fulfilment of Intra-Disciplinary Project-I is a bonafide work carried out under the supervision of Mrs M. Bhargavi , Assistant professor from Department of Computer Science & Engineering.

Name of the Guide

Mrs M. Bhargavi, Assistant Professor

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HOD, CSE

Internal Examiner

External Examiner

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## VIGNAN'S

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### DECLARATION

We hereby declare that the Intra-Disciplinary Project-I entitled “**Hostel Management System**” is being submitted by **Suraj Patel (201FA04431), Dipu Kumar (201FA04432), Nitish Kumar (201FA04433)** in partial fulfilment of Intra-Disciplinary Projects-I course work. This is our original work, and this project has not formed the basis for the award of any degree. We have worked under the supervision of Mrs M. Bhargavi , Assistant professor from Department of Computer Science & Engineering.

By:-

Mr. SURAJ PATEL

Mr. DIPU KUMAR

Mr. NITISH KUMAR

Date: 28/03/2022

## TABLE OF CONTENTS

1. PROBLEM STATEMENT .....	5
2. ER DIAGRAM .....	6
3. DATABASE DESIGN.....	7
4. IMPLEMENTATION.....	10
5. DATABASE QUERIES AND RESULTS.....	12
6. CONCLUSION.....	13



## **1.PROBLEM STATEMENT:-**

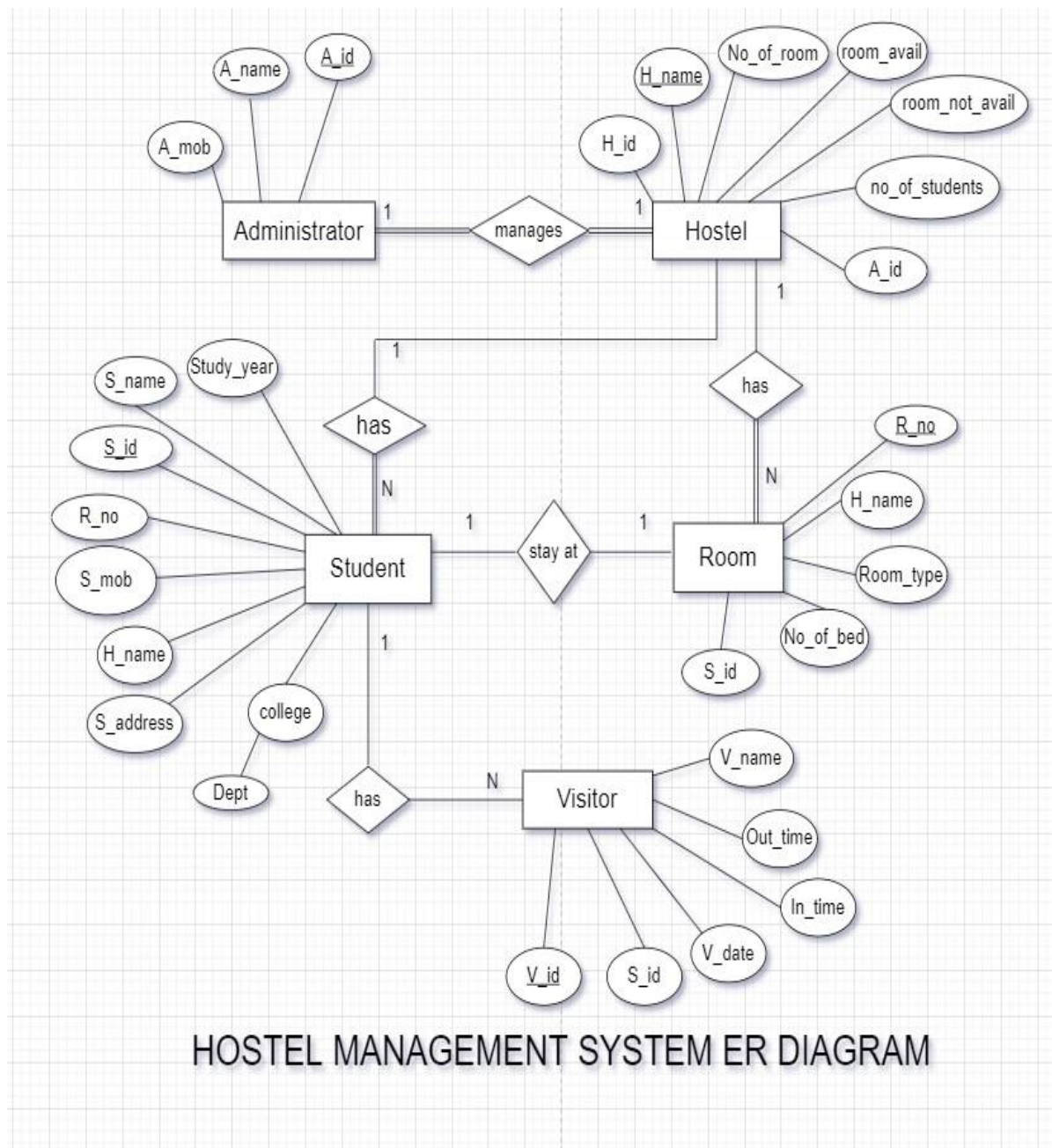
“**Hostel Management Information System**” should maintain all the Hostel Student information. The Hostel environment consists of students , Room etc. so the Hostel Management information system should maintain details of all students I.e., their bio-data ,their personal Information etc. Fee details like Room rent , Mess ,Management ,amount etc. and also details like Room to which a particular student belong, their attendance, their Refund etc.

Therefore it is obvious that system maintains vast amounts of data. In such cases computerization of the system is inevitable. The ideal reasons for computerizing Hostel Management system are as follows.

**User Menu:** Provides a way to give any commands to the Hostel Management System, the options include in the menu are

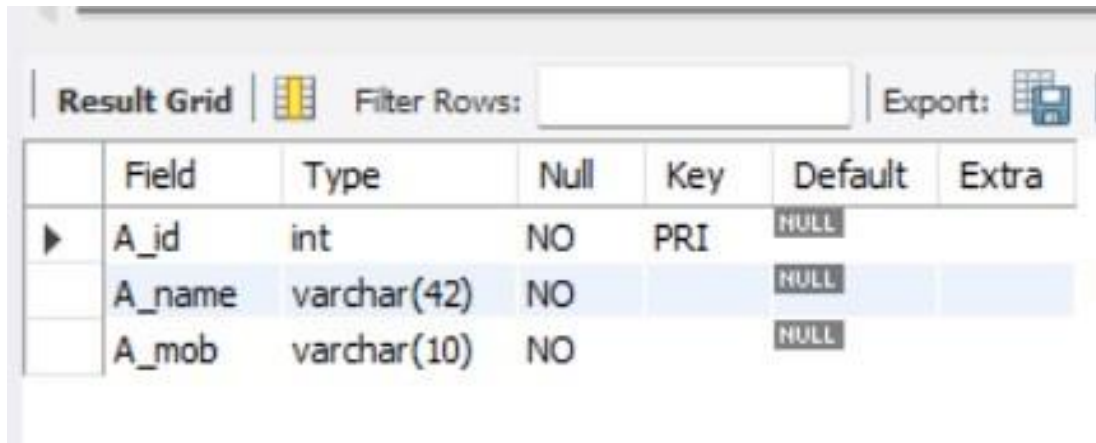
1. Administrator
2. Hostel
3. Student
4. Room
5. Visitor

## 2.ER DIAGRAM:-



### **3.DATABASE DESIGN:-**

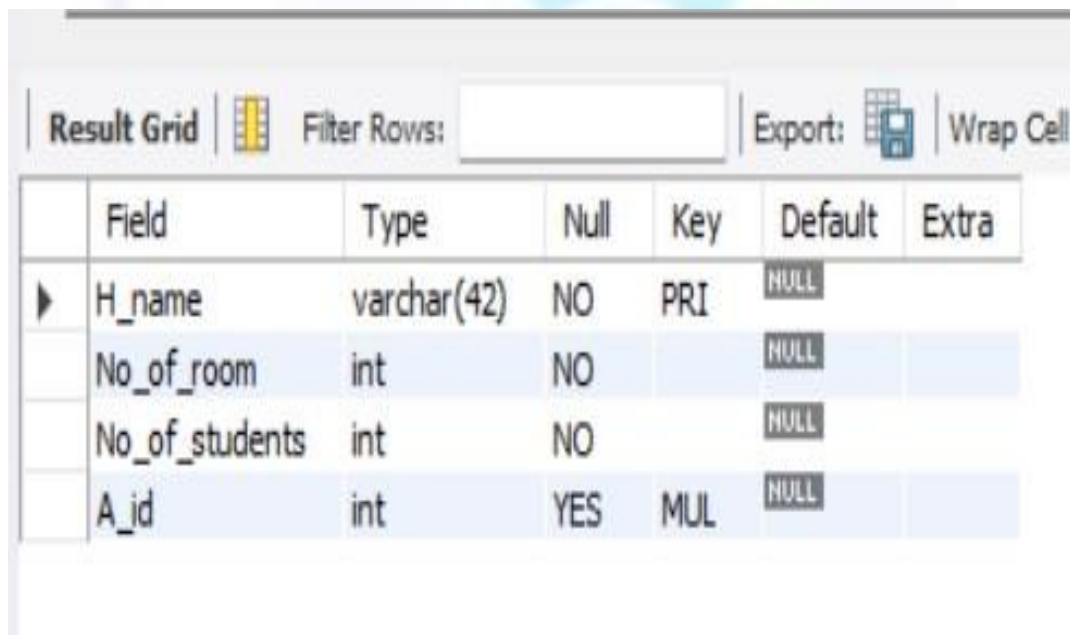
#### **1.ADMINISTRATOR**



The screenshot shows a database design tool interface. At the top, there is a 'Result Grid' tab, a 'Filter Rows' input field, and an 'Export' button with a grid icon. Below this is a table with the following structure:

	Field	Type	Null	Key	Default	Extra
▶	A_id	int	NO	PRI	NULL	
	A_name	varchar(42)	NO		NULL	
	A_mob	varchar(10)	NO		NULL	

#### **2.HOSTEL**





The screenshot shows a database design tool interface. At the top, there is a 'Result Grid' tab, a 'Filter Rows' input field, an 'Export' button with a grid icon, and a 'Wrap Cell' button. Below this is a table with the following structure:



	Field	Type	Null	Key	Default	Extra
▶	H_name	varchar(42)	NO	PRI	NULL	
	No_of_room	int	NO		NULL	
	No_of_students	int	NO		NULL	
	A_id	int	YES	MUL	NULL	



### 3.STUDENT

Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap On						
	Field	Type	Null	Key	Default	Extra
▶	S_id	int	NO	PRI	NULL	
	S_name	varchar(42)	NO		NULL	
	S_mob	char(10)	NO		NULL	
	H_name	varchar(42)	NO	MUL	NULL	
	S_address	varchar(60)	NO		NULL	
	College	varchar(300)	NO		NULL	
	Dept	char(10)	NO		NULL	
	Study_year	int	NO		NULL	

### 4.ROOM

Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap On						
	Field	Type	Null	Key	Default	Extra
▶	R_no	int	NO	PRI	NULL	
	S_id	int	YES	MUL	NULL	
	H_name	varchar(42)	YES	MUL	NULL	
	Room_type	varchar(10)	NO		NULL	
	No_of_bed	int	NO		NULL	



## 5.VISITOR

Result Grid						
		Filter Rows:			Export:	Wrap Cell Con
	Field	Type	Null	Key	Default	Extra
►	Vid	int	NO	PRI	NULL	
	V_name	varchar(42)	NO		NULL	
	V_date	date	NO		NULL	
	In_time	time	NO		NULL	
	Out_time	time	NO		NULL	
	S_id	int	NO	MUL	NULL	
	Relation_name	varchar(42)	NO		NULL	



## 4.IMPLEMENTATION:-

### 1.ADMINISTRATOR -RELATION

Result Grid			
	A_id	A_name	A_mob
▶	20	P J Reddy	8987265429
•	NULL	NULL	NULL

### 2.HOSTEL-RELATION

Result Grid				
	H_name	No_of_room	No_of_students	A_id
▶	Vignan vihar boys hostel	100	252	20
•	NULL	NULL	NULL	NULL

### 3.STUDENT-RELATION

Result Grid								
	S_id	S_name	S_mob	H_name	S_address	College	Dept	Study_year
▶	401	Raju	6206987694	Vignan vihar boys hostel	Tenali,A.P.	Vignan University	12th	2020
	413	Prem Raj	7033210072	Vignan vihar boys hostel	Patna,Bihar	Vignan University	CSE	2020
	421	Aman	7033212072	Vignan vihar boys hostel	Patna,Bihar	Vignan University	CSE	2020
	431	Monu	6206626296	Vignan vihar boys hostel	Tenali,A.P.	Vignan junior college	12th	2018
	7075	Juhi karn	8051546765	Vignan vihar boys hostel	Patna,Bihar	Vignan University	IT	2020
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#### 4.ROOM-RELATION

Result Grid						Filter Rows:	Edit:		
	R_no	S_id	H_name	Room_type	No_of_bed				
▶	12	7075	Vignan vihar boys hostel	AC	3				
	42	413	Vignan vihar boys hostel	NON AC	4				
	46	431	Vignan vihar boys hostel	NON AC	4				
	47	401	Vignan vihar boys hostel	NON AC	4				
	48	421	Vignan vihar boys hostel	AC	3				
•	NULL	NULL	NULL	NULL	NULL				

#### 5.VISITOR-RELATION

Result Grid								Filter Rows:	Edit:			Export/Import:
	Vid	V_name	V_date	In_time	Out_time	S_id	Relation_name					
▶	123	Mahendra Prasad	2022-02-15	08:00:00	15:20:00	413	Father					
	124	Shri Lakshmi	2022-02-25	10:00:00	12:00:00	7075	Friend					
	125	Surya shashi	2021-04-19	14:00:00	17:00:00	431	Brother					
	150	Ramesh kr	2020-09-29	14:00:00	17:00:00	431	friend					
	160	Surya kr	2021-04-19	13:00:00	14:00:00	431	brother					
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL					

## **5.DATABASE QUERIES AND RESULTS:-**

1. select s\_name from student where s\_id in(select s\_id from visitor where Vid=124);

Output:-



The screenshot shows a database interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below the toolbar is a table with two rows. The first row has a header 's\_name'. The second row has a value 'Juhi karn'.

s_name
Juhi karn

2. select V\_name from visitor where V\_date="2022-02-15" and s\_id in(select s\_id from Student where s\_name="Prem Raj");

Output:-



The screenshot shows a database interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below the toolbar is a table with two rows. The first row has a header 'V\_name'. The second row has a value 'Mahendra Prasad'.

V_name
Mahendra Prasad

3. select v\_name from visitor where s\_id in(select s\_id from student where s\_name="Prem Raj");

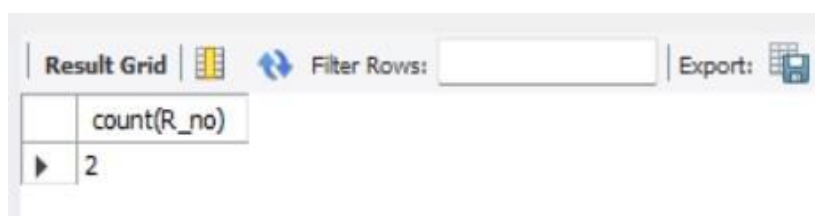
Output:-



The screenshot shows a database interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', and 'Export'. Below the toolbar is a table with two rows. The first row has a header 'v\_name'. The second row has a value 'Mahendra Prasad'.

v_name
Mahendra Prasad

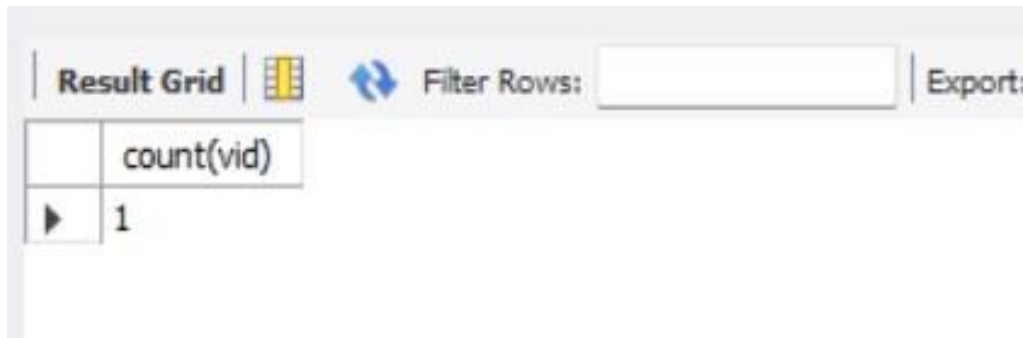
4. select count(R\_no) from room where room\_type="AC"; Output:-



The screenshot shows a database interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', and 'Export'. Below the toolbar is a table with two rows. The first row has a header 'count(R\_no)'. The second row has a value '2'.

count(R_no)
2

5. select count(vid) from visitor where v\_date="2022-02-25"; Output:-



The screenshot shows a database interface with a 'Result Grid' tab. Below the tab, there is a table with one column labeled 'count(vid)' and one row containing the value '1'. Above the table, there are controls for 'Filter Rows' and 'Export'.

count(vid)
1

## **6.CONCLUSION:-**

The project titled as "Hostel Management Information System " been designed with much care, with the intention easier and the more complexity involved is presented in a simple and lucid style.

The Hostel Management System works in a similar fashion as that of an Hotel Management System. The various Department student information is to be stored and retrieve any time when required.